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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/658,009	09/09/2003	Jeffrey W. Leon	85487LMB	2285	
7590 10/03/2005		EXAMINER			
Paul A. Leipold			TRUON	TRUONG, DUC	
Patent Legal Sta	ıff				
Eastman Kodak Company ART UNIT				PAPER NUMBER	
343 State Street			1711	1711	
Rochester, NY 14650-2201			DATE MAILED: 10/03/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/658,009	LEON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Duc Truong	1711				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence add	lress			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a reply od will apply and will expire SIX (6) MONTHS tute, cause the application to become ABAN	TION.  be timely filed  from the mailing date of this cor DONED (35 U.S.C. § 133).				
Status	•					
1)⊠ Responsive to communication(s) filed on <u>05</u>	August 2005.					
	nis action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims			•			
4) ⊠ Claim(s) <u>1-64</u> is/are pending in the application 4a) Of the above claim(s) <u>1-28 and 44-64</u> is/a 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>29-43</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	are withdrawn from considerati	on.				
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
10) The drawing(s) filed on is/are: a) a	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in App riority documents have been re eau (PCT Rule 17.2(a)).	lication No ceived in this National S	Stage			
Attachment(s)	_					
1) Notice of References Cited (PTO-892)		ımary (PTO-413) fail Date				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date</li> </ul>		mal Patent Application (PTO-	-152)			

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## **DETAILED ACTION**

The last office action is hereby withdrawn and a new ground of rejection is cited herein based on Applicant's arguments.

Claims 29-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sutton et al (4,997,772) in view of Pierce et al (4,258,001).

Sutton discloses a water insoluble polymeric particle having an inner core comprising a first polymer derived from one or more ethylenically unsaturated polymerizable monomers (see col. 2, line 62 to end), and an outer shell comprising a second polymer derived from one or more ethylenically unsaturated polymerizable monomers, at least one of which monomers has reactive groups which are either directly or indirectly reactive with free amono or sulhydryl groups of an immunoreactive species, the particle having none of the tracer within the outer shell or on its outer surface, and the particle being covalently attached through the reactive groups on the outer surface to an immunoreactive species (see col. 3, lines 1-35; col. 4, line 30 onto col. 5, line 3).

Note that the immunoreactive species attached to the particles can be enzyme, proteins or other biological compounds---(see col. 4, lines 40-64; col. 5, lines 4-9).

Note also that the first monomers have been disclosed at col. 6, line 40 et seq.

Note also that the shell of the particles comprises a second polymers which can be represented by the formula (II) in that z can be 0 and F in the formula II of the reference is considered the claimed H of formula I in claim 36, representing vinylsulfonyl

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group (see col. 9, lines 25-28); and the polymeric particles can be prepared using graft copolymerization (see col. 11, line 17) to the external surface of said core (core-shell).

The disclosure of the reference differs from the instant claims in that it does not disclose the particle composition comprising monodisperse polymer bead stabilized by vinylsulfonyl functionalized polymers, as in the claims.

However, the reference does disclose the claimed core/shell polymeric particle in that vinylsulfonyl functionalized polymers are grafted to the external of said core.

Pierce discloses organo-polymeric beads having a uniform size such as monodisperse beads (see col. 30, lines 41-43) stabilized by vinylsulfonyl functionalized polymers (see col. 12, line 41).

It would have been obvious to one of ordinary skill in the art the use the core/shell polymeric particle composition, as disclosed in Sutton, to determine the monodisperse polymer beads stabilized by vinylsulfonyl functionalized polymers, as disclosed in Pierce, in order to gain the advantages of the combinations of the references, that being a particle composition comprising monodisperse polymer beads stabilized by vinylsulfonyl functionalized polymers which are grafted to the external surfaces of said beads, which has the added properties of being useful for the analysis of various substances in liquids, especially high MW proteinaceous substances in aqueous biological liquids (see Abstract) using fluorescence Immunoassay element (see col. 30, line 32 et seq.)

Pierce provides evidence that monodisperse polymer beads stabilized by vinylsulfonyl functionalized polymers is well known in the art.

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The use of said monodisperse polymer beads of Pierce, to determine the polymeric particles of Sutton to have the added properties would not provide an unexpected result to one of ordinary skill in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 571-272-1081. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUCTRUONG PRIMARY EXAMINER